Regression tables

```
library(huxtable)
```

A short example illustrating the use of regresssion tables.

```
summary(mtcars)
```

```
##       mpg             cyl             disp             hp
##  Min.   :10.40   Min.   :4.000   Min.   : 71.1   Min.   : 52.0
##  1st Qu.:15.43   1st Qu.:4.000   1st Qu.:120.8   1st Qu.: 96.5
##  Median :19.20   Median :6.000   Median :196.3   Median :123.0
##  Mean   :20.09   Mean   :6.188   Mean   :230.7   Mean   :146.7
##  3rd Qu.:22.80   3rd Qu.:8.000   3rd Qu.:326.0   3rd Qu.:180.0
##  Max.   :33.90   Max.   :8.000   Max.   :472.0   Max.   :335.0
##       drat             wt             qsec             vs
##  Min.   :2.760   Min.   :1.513   Min.   :14.50   Min.   :0.0000
##  1st Qu.:3.080   1st Qu.:2.581   1st Qu.:16.89   1st Qu.:0.0000
##  Median :3.695   Median :3.325   Median :17.71   Median :0.0000
##  Mean   :3.597   Mean   :3.217   Mean   :17.85   Mean   :0.4375
##  3rd Qu.:3.920   3rd Qu.:3.610   3rd Qu.:18.90   3rd Qu.:1.0000
##  Max.   :4.930   Max.   :5.424   Max.   :22.90   Max.   :1.0000
##        am              gear            carb
##  Min.   :0.0000   Min.   :3.000   Min.   :1.000
##  1st Qu.:0.0000   1st Qu.:3.000   1st Qu.:2.000
##  Median :0.0000   Median :4.000   Median :2.000
##  Mean   :0.4062   Mean   :3.688   Mean   :2.812
##  3rd Qu.:1.0000   3rd Qu.:4.000   3rd Qu.:4.000
##  Max.   :1.0000   Max.   :5.000   Max.   :8.000
```

```
lm1 <- lm(mpg ~ cyl, data = mtcars)
lm2 <- lm(mpg ~ cyl + disp + hp, data = mtcars)
lm3 <- lm(mpg ~ disp + gear + carb + am, data = mtcars)
```

```
summary(lm2)
```

```
##
## Call:
## lm(formula = mpg ~ cyl + disp + hp, data = mtcars)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -4.0889 -2.0845 -0.7745  1.3972  6.9183
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 34.18492    2.59078  13.195 1.54e-13 ***
## cyl         -1.22742    0.79728  -1.540   0.1349
## disp        -0.01884    0.01040  -1.811   0.0809 .
## hp          -0.01468    0.01465  -1.002   0.3250
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 3.055 on 28 degrees of freedom
## Multiple R-squared:  0.7679, Adjusted R-squared:  0.743
## F-statistic: 30.88 on 3 and 28 DF,  p-value: 5.054e-09
```

```
huxreg(lm1, lm2, lm3)
```

	(1)	(2)	(3)
(Intercept)	37.885 ***	34.185 ***	23.319 ***
	(2.074)	(2.591)	(4.626)
cyl	-2.876 ***	-1.227	
	(0.322)	(0.797)	
disp		-0.019	-0.022 **
		(0.010)	(0.006)
hp		-0.015	
		(0.015)	
gear			1.431
			(1.289)
carb			-1.622 ***
			(0.417)
am			2.669
			(1.631)
N	32	32	32
R2	0.726	0.768	0.836
logLik	-81.653	-79.009	-73.473
AIC	169.306	168.018	158.946

*** p < 0.001; ** p < 0.01; * p < 0.05.

```
huxreg(
        lm1, lm2, lm3,
        error_format = "[{statistic}]",
        note         = "{stars}. T statistics in brackets."
      )
```

Suppose that we discover that the observations number 4 to 6, 13 and 17 should not be included.

	(1)	(2)	(3)
(Intercept)	37.885 ***	34.185 ***	23.319 ***
	[18.268]	[13.195]	[5.041]
cyl	-2.876 ***	-1.227	
	[-8.920]	[-1.540]	
disp		-0.019	-0.022 **
		[-1.811]	[-3.439]
hp		-0.015	
		[-1.002]	
gear			1.431
			[1.109]
carb			-1.622 ***
			[-3.888]
am			2.669
			[1.636]
N	32	32	32
R2	0.726	0.768	0.836
logLik	-81.653	-79.009	-73.473
AIC	169.306	168.018	158.946

*** p < 0.001; ** p < 0.01; * p < 0.05. T statistics in brackets.

```
lm1_red <- lm(mpg ~ cyl,
              data = mtcars[-c(4:6, 13, 17), ])
lm2_red <- lm(mpg ~ cyl + disp + hp,
              data = mtcars[-c(4:6, 13, 17), ])
lm3_red <- lm(mpg ~ disp + gear + carb + am,
              data = mtcars[-c(4:6, 13, 17), ])
```

```
huxreg(
        lm3,  lm3_red,
        error_format = "[{statistic}]",
        note         = "{stars}. T statistics in brackets."
      )
```

```
#siste
```

References

	(1)	(2)
(Intercept)	23.319 ***	23.702 ***
	[5.041]	[4.915]
disp	-0.022 **	-0.025 **
	[-3.439]	[-3.674]
gear	1.431	1.473
	[1.109]	[1.106]
carb	-1.622 ***	-1.595 **
	[-3.888]	[-3.575]
am	2.669	2.469
	[1.636]	[1.475]
N	32	27
R2	0.836	0.855
logLik	-73.473	-62.020
AIC	158.946	136.040

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$. T statistics in brackets.